IN THE CLAIMS

1. (Previously Presented) An electrode contact section incorporated in a semiconductor device, comprising:

a first-conductivity-type semiconductor substrate;

a second-conductivity-type impurity layer formed in one surface of the semiconductor substrate and having a thickness of more than 0.2 μ m and not more than 1.0 μ m from the one surface of the semiconductor substrate;

a second-conductivity-type contact layer formed in the impurity layer and having a thickness of not more than 0.2 μ m from the one surface of the semiconductor substrate, the contact layer being thinner than the impurity layer and a peak of an impurity concentration of the contact layer being higher than that of the impurity layer;

a first electrode formed on the contact layer; and

a second electrode formed at another surface of the semiconductor substrate for allowing a current to flow between the first and second electrodes.

2. (Previously Presented) The electrode contact section according to claim 1, wherein:

the impurity layer is provided for carrier injection from the impurity layer to the semiconductor substrate, and

the contact layer is provided for reducing a contact resistance between the first electrode and the impurity layer and not for carrier injection.

- 3. (Canceled)
- 4. (Previously Presented) The electrode contact section according to claim 1, wherein the semiconductor device is an insulated gate bipolar transistor (IGBT).
- 5. (Original) The electrode contact section according to claim 1, wherein the impurity layer is formed in the entire one surface of the semiconductor substrate.

- 6. (Withdrawn) The electrode contact section according to claim 1, wherein the impurity layer is formed in a portion smaller than the entire one surface of the semiconductor substrate.
 - 7-15 (Canceled)
 - 16. (Previously Presented) A semiconductor device comprising:
 - a first-conductivity-type semiconductor substrate;
- a second-conductivity-type base region formed in one surface of the semiconductor substrate;
 - a first-conductivity-type impurity region formed in the base region;
 - a first electrode connected to the first-conductivity-type impurity region;
 - a gate electrode connected to the base region via an insulation film;
- a second-conductivity-type impurity region formed in another surface of the semiconductor substrate and having a thickness of more than 0.2 μ m and not more than 1.0 μ m from the another surface of the semiconductor substrate;
- a second-conductivity-type contact region formed in the second-conductivity-type impurity region and having a thickness of not more than 0.2 μ m from the another surface of the semiconductor substrate, the contact region being thinner than the second-conductivity-type impurity region and a peak of an impurity concentration of the second-conductivity-type contact region being higher than that of the second-conductivity-type impurity region; and a second electrode formed on the contact region.
- 17. (Previously Presented) The semiconductor device according to claim 16, wherein: the second-conductivity-type impurity region is provided for carrier injection from the second-conductivity-type impurity region to the semiconductor substrate, and

the contact region is provided for reducing a contact resistance between the second electrode and the second-conductivity-type impurity region and not for carrier injection.

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- 18. (Previously Presented) The semiconductor device according to claim 16, wherein the second-conductivity-type impurity region is formed in the entire another surface of the semiconductor substrate.
- 19. (Withdrawn) The semiconductor device according to claim 16, wherein the impurity region is formed in a portion less than the entire another surface of the semiconductor substrate.

20-26 (Canceled)

27. (New) The electrode contact section according to claim 1, wherein:

said second-conductivity-type impurity layer has a thickness of about 1.0 μ m from the one surface of the semiconductor substrate.

28. (New) The electrode contact section according to claim 1, wherein:

said second-conductivity-type contact layer has a thickness of about 0.2 μ m from the one surface of the semiconductor substrate.

29. (New) The electrode contact section according to claim 1, wherein:

said second-conductivity-type impurity layer has a thickness of about 0.8 μ m from the one surface of the semiconductor substrate.

- 30. (New) The electrode contact section according to claim 1, wherein:
- said second-conductivity-type contact layer has a thickness of about 0.16 μm from the one surface of the semiconductor substrate.
 - 31. (New) The electrode contact section according to claim 1, comprising:
 - a silicide layer formed between the first electrode and the contact layer.
 - 32. (New) The electrode contact section according to claim 31, wherein:
 - said silicide layer has a thickness no more than said thickness of said contact layer.
 - 33. (New) The electrode contact section according to claim 31, wherein:

the silicide layer has a contact-layer-side end thereof made to substantially correspond to that portion of the contact layer at which an impurity concentration profile of the contact layer assumes a peak value.

- 34. (New) The electrode contact section according to claim 31, wherein: said silicide layer has a thickness less than said thickness of said contact layer.
- 35. (New) The electrode contact section according to claim 16, wherein: said second-conductivity-type impurity layer has a thickness of about 1.0 μ m from the one surface of the semiconductor substrate.
- 36. (New) The electrode contact section according to claim 16, wherein: said second-conductivity-type contact layer has a thickness of about 0.2 μ m from the one surface of the semiconductor substrate.
- 37. (New) The electrode contact section according to claim 16, wherein: said second-conductivity-type impurity layer has a thickness of about 0.8 μ m from the one surface of the semiconductor substrate.
- 38. (New) The electrode contact section according to claim 16, wherein: said second-conductivity-type contact layer has a thickness of about 0.16 μ m from the one surface of the semiconductor substrate.
 - 39. (New) The electrode contact section according to claim 16, comprising: a silicide layer formed between the first electrode and the contact layer.
 - 40. (New) The electrode contact section according to claim 39, wherein: said silicide layer has a thickness no more than said thickness of said contact layer.
 - 41. (New) The electrode contact section according to claim 39, wherein:

the silicide layer has a contact-layer-side end thereof made to substantially correspond to that portion of the contact layer at which an impurity concentration profile of the contact layer assumes a peak value.

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42. (New) The electrode contact section according to claim 39, wherein: said silicide layer has a thickness less than said thickness of said contact layer.